

Application Guide

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1 AF Amplifier**CLASS - A₁**

Twin Diode - Med.-Mu Triodes
12SW7 26C6

High-Mu Triode - 5719

Power Triodes
955 5718 9002

Medium-Mu Twin Triodes
▲5670 5692 ▲6189
5687 6072

High-Mu Twin Triodes
6112 6681/12AX7A

Twin Power Triode - 3A5

Sharp-Cutoff Pentodes

6AH6WA 1620

Power Pentodes

3A4 5672
6AG7Y 6677/6CL6
6AK6 7054
1621 8077/7054

Beam Power Tubes

12A6 ▲6005
1622 6550
5686 6550/V1
5824 6669/6AQ5A
5881 7061
5902

Twin Beam Power Tube

26A7GT

Pentagrid Amplifier - 1612

Beam-Deflection Tube - 7360

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CLASS - AB₁ Medium-Mu Twin Triode ▲5670 Beam Power Tubes 1614 6669/6AQ5A 1619 7551 ▲6005 7558 Twin Beam Power Tube 26A7GT	Medium-Mu Twin Triodes ▲5670 6350 7044 5687 6922/E88CC 7308 5965
CLASS - B Twin Power Triode - 1635 2 Automatic Gain Control Remote-Cutoff Pentode ▲5749	7 Clipper Twin Diodes ▲5726 7055
3 Balanced Modulator/ Balanced Mixer Beam-Deflection Tube 7360	8 Converter Pentagrid Converters 12SY7 26D6 5750
4 Cathode-Coupled, Direct-Drive (RF) Medium-Mu Twin Triodes 6DJ8/ECC88 6922/E88CC	9 DC Amplifier Sharp-Cutoff Pentode - 5693 Medium-Mu Twin Triode - 5692 High-Mu Twin Triode - 5691
5 Cathode Drive (RF) (Grounded Grid) High-Mu Triodes 6J4 ▲8532 ■8058 6 Cathode Follower Medium-Mu Triodes 6814 ■8056	10 Delay Circuit Sharp-Cutoff Pentodes 6AS6 ▲5725 5636 11 Demodulator Beam-Deflection Tube - 7360 12 Detector Audio Twin Diode — Med.-Mu Triodes 12SW7 26C6 VHF Twin Diodes ▲5726 6663/6AL5 7055 5896 6887 UHF Diodes 9005 9006

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13 Driver Beam Power Tubes 5763 7551 7905 6417 7558	FREQUENCY TRIPLER Beam Power Tubes 5763 6417 7905 Twin Power Pentode - 6939
14 Frequency Converter High-Mu Triode - 6664/6AB4 High-Mu Twin Triode 6679/12AT7 Beam-Deflection Tube - 7360	17 Gated Amplifier Sharp-Cutoff Pentodes 6AS6 ▲5725 5636 Pentagrid Amplifier - 5915
15 Frequency Divider Medium-Mu Twin Triodes ▲5670 5964 6350 5687 6211 7044 5963 Power Pentode - 6197	18 Grid-Controlled Rectifier Triodes (Thyratron) 6D4 884 Tetrodes (Thyratron) 2D21 2050A ▲5727 2050 5696 6012
16 Frequency Multiplier FREQUENCY DOUBLER	19 Indicator, Voltage Electron-Ray Tubes 1629 6977
High-Mu Triode ■8808 Power Triode ■8203 ■8627 Twin Tetrode - 6360A Power Pentodes 7054 8077/7054	20 IF Amplifier VHF Medium-Mu Triodes ■7586 ■8056 Medium-Mu Twin Triodes 5687 6922/E88CC 6386 7308
Beam Power Tubes 5763 7551 7905 6417 7558	Sharp-Cutoff Pentodes ▲6AU6WB† 6676/6CB6A ▲5654 7056

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Remote-Cutoff Pentodes
▲5749 6660/6BA6

Sharp-Cutoff Tetrode - ■7587

High-Mu Triode - ■7895

UHF

Sharp-Cutoff Pentodes
5840 ▲6186

Semiremote-Cutoff Pentodes
5899 6206

Remote-Cutoff Pentode - 9003

21 Inverter

Medium-Mu Triode - 6814

Medium-Mu Twin Triodes
6350 7044

22 Limiter

High-Mu Twin Triode - 7898

23 Low-Plate-Voltage Nuvistor Type for Hybrid Equipment

Medium-Mu Triode - ■8056

24 Mixer

VHF

Medium-Mu Twin Triodes
407A ▲5814A 6922/E88CC
▲5670 6386

High-Mu Twin Triodes
▲12AT7WA† 7898
▲12AT7WB†

Medium-Mu Triode -
Sharp-Cutoff Pentodes
6678/6U8A 7059

Sharp-Cutoff Tetrode - ■7587

Sharp-Cutoff Pentodes
6AS6 ▲5725

Pentagrid Converters
12SY7 26D6 5750

UHF

Diode - 9005

Medium-Mu Twin Triode
▲6J6WA

Sharp-Cutoff Pentodes
5636 9001

Remote-Cutoff Pentode - 9003

25 Modulator

Twin Tetrode - 6360A

Beam Power Tubes
7551 7558

Power Pentodes
7054 8077/7054

26 Multivibrator

Medium-Mu Twin Triodes
407A ▲6189
▲5670 6350
5687 6680/12AU7A
5692 6922/E88CC
▲5814A 7044

High-Mu Twin Triodes
▲12AT7WA† ▲5751

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27 Oscillator, RF

VHF

Power Triode - ■8203

High-Mu Triode - 6664/6AB4

Medium-Mu Twin Triodes
 407A ▲5814A 6680/12AU7A
 ▲5670 6111

High-Mu Twin Triodes
 ▲12AT7WA† 7898
 ▲12AT7WB†

Medium-Mu Triode -
 Sharp-Cutoff Pentodes
 6678/6UBA 7059

Twin Tetrode - 6360A

Beam Power Tubes
 3B4WA† 5763 7558
 1614 6417 7905
 1619 7551

Power Pentodes
 1613 7054 8077/7054

Medium-Mu Triode -
 Power Pentode
 7060

Pentagrid Converters
 12SY7 26D6 5750

UHF

Medium-Mu Triodes
 6F4 ■8056 ■8393
 ■7586

High-Mu Triodes
 ■7895 ■8058 ■8808

Power Triodes
 955 ■8627 9002
 5718

Medium-Mu Twin Triodes
 ▲6J6WA† 6021

Sharp-Cutoff Tetrode - ■7587

Twin Power Pentode - 6939

28 "On-Off" Control

(Involving Long
 Periods of Operation
 Under Cutoff Conditions)

Twin Diode - 6887

Medium-Mu Triode - 6814

Medium-Mu Twin Triodes
 5844 5965 6922/E88CC
 5963 6211 7044
 5964 6350

Sharp-Cutoff Pentode - 6AS6

Power Pentode - 6197

Pentagrid Amplifier - 5915

29 Phase Inverter

Medium-Mu Triode - 6814

Medium-Mu Twin Triodes
 ▲5670 6350
 5687 6680/12AU7A
 ▲5814A 6922/E88CC
 ▲6189 7044

High-Mu Twin Triodes
 5691 7058
 ▲5751

30 Pulse Amplifier

Medium-Mu Triode - 6814

Medium-Mu Twin Triodes
 ▲5670 6350 7044
 5687

31 Pulse Modulator

Twin Diode
 ▲5726

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32 RF Power Amplifier

VHF

Power Triode - ■8203

Twin Power Triode - 3A5

Beam Power Tubes

3B4WA†	5686	7551
1614	5763	7558
1619	6417	7905

Medium-Mu Triode - Power Pentode

7060

Power Pentodes

3A4	6AN5	7054
6AG7Y	1613	8077/7054

UHF

High-Mu Triode

■8808

Power Triodes

955	■8627	9002
5718		

Twin Power Tetrode - 6360A

Twin Power Pentode - 6939

33 RF Voltage Amplifier

VHF

Medium-Mu Triodes

5842/417A	■8056	■8393
■7586		

High-Mu Triodes

6664/6AB4	■7895	■8628
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Medium-Mu Twin Triodes

6DJ8'ECC88	6386
407A	6922/E88CC
6111	7057

High-Mu Twin Triode

6679/12AT7

Sharp-Cutoff Tetrodes

■7587	7717/6CY5
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Sharp-Cutoff Pentodes

1L4	5693
6AC7W	5847/404A
6AH6WA	▲6186
▲6AU6WB	6661/6BH6
6SJ7Y	6676/6CB6A
408A	6688A
▲5654	7056
5678	

Remote-Cutoff Pentodes

26A6	6660/6BA6
▲5749	6662/6BJ6

Medium-Mu Triode - Power Pentode

7060

UHF

High-Mu Triodes

6J4	▲8532
■8058	

Sharp-Cutoff Pentodes

959	5840	9001
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Semiremote-Cutoff Pentodes

5899	6206
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Remote-Cutoff Pentode - 9003

34 Rectifier

POWER

Full-Wave Gas Type - 83

Full-Wave Vacuum Types

5R4GYB	2076/5R4GYB
6X4W	6202

LOW CURRENT

Twin Diodes

▲5726	6663/6AL5
5896	7055



**Electronic
Components**

**APPLICATION
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Single Diodes				High-Mu Twin Triodes			
9005		9006		7058		7898	
PULSE				Medium-Mu Triode - Sharp-Cutoff Pentodes			
Half-Wave Vacuum Type - 5642				7059		7258	
35 Relay				Medium-Mu Triode - Power Pentode			
Glow-Discharge (Cold-Cathode) Tubes				7060			
OA4G	1C21	5823		Sharp-Cutoff Pentode - 7056			
Triodes (Thyratron)				Power Pentodes			
6D4		884		7054		8077/7054	
Tetrodes (Thyratron)				Beam Power Tubes			
2D21	5663	▲ 5727		7061		7551	
2050	5696	6012		NOMINAL-6-VOLT STORAGE BATTERY SYSTEMS			
2050A				Twin Diode - 6663/6AL5			
36 Sweep-Circuit Oscillator				High-Mu Triode - 6664/6AB4			
Triode (Thyratron) - 884				Medium-Mu Twin Triode			
37 Switching				6680/12AU7A			
Twin Diode - 6887				High-Mu Twin Triodes			
Beam-Deflection Tube - 7360				6679/12AT7			
38 Transducer				6681/12AX7A			
Mechano-Electronic Transducer				Medium-Mu Triode - Sharp-Cutoff Pentode			
5734				6678/6U8A			
39 Tubes Operating from Battery Supplies				Twin Tetrode - 6360A			
NOMINAL-12-VOLT STORAGE BATTERY SYSTEMS				Remote-Cutoff Pentodes			
Twin Diode - 7055				6660/6BA6		6662/6BJ6	
Twin Diode - High-Mu Triode				Sharp-Cutoff Pentodes			
7724/14GT8				6661/6BH6		6676/6CB6A	
Medium-Mu Twin Triode - 7057				Power Pentode - 6677/6CL6			
				Beam Power Tubes			
				6669/6AQ5A		7905	

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NOMINAL-24-VOLT STORAGE BATTERY SYSTEMS

Twin Diode -
Medium-Mu Triode
26C6

Twin Power Triode - 6082

Remote-Cutoff Pentode - 26A6

Pentagrid Converter - 26D6

Twin Beam Power Tube
26A7GT

FILAMENTARY-CATHODE TYPES OPERATING FROM DRY-CELL BATTERY SUPPLIES

Half-Wave Vacuum Rectifier
5642

Twin Power Triode - 3A5

Sharp-Cutoff Pentode - 1L4

Power Pentode - 3A4

Beam Power Tube - 1619

40 Video Amplifier

Sharp-Cutoff Tetrode - 7587

Sharp-Cutoff Pentode - 5639

Power Pentodes

6AG7Y 6677/6CL6
6AN5

41 Voltage Reference

Glow Discharge (Cold-Cathode) Tubes

5651A ▲5651WA† 5783

42 Voltage Regulator

Glow Discharge (Cold-Cathode) Tubes

OA2 †	OC2	6073
▲OA2WA†	OC3	6073/OA2
OA3	OC3A	6074
OA3A	OD3	6074/OB2
OB2 †	OD3A	6626/
▲OB2WA†	991	OA2WA

43 Voltage Regulator, Series

Low-Mu Twin Triodes

6AS7G ▲6080WA 6336A
6080 6082

Beam Power Tube - 5902

44 Volume Expander- Compressor

Pentagrid Mixer - 1612

▲ Premium Type. Premium types are subjected to more rigorous tests and controls than other types.

■ Nuvistor Type.

† For data on this type, refer to Military Specification. A copy of the applicable Military Specification may be obtained from: Specification Division, Naval Supply Depot, 5801 Tabor Avenue, Philadelphia, Pa. 19120.

Note:

For data on types in this guide which do not appear in the *Index of Types*, refer to RCA publication RIT-104G. A copy of this publication may be obtained from: RCA Commercial Engineering, Harrison, N.J. 07029.